AMENDMENTS TO THE CLAIMS

1. (Original) A computerized method for collaborating over a network to manipulate a design using a plurality of heterogeneous user applications running on respective clients connected to the network, said method comprising the steps of:

connecting a session client process to a session manager over the network to participate in a collaborative session;

sharing session control messages with other session client processes connected to said session manager;

loading design data representing said design into a local application running on said client;

creating at least one application state file representing at least one application state of said local application based on at least one manipulation of said design using said local application;

communicating said at least one application state file from said session client process to said other session client processes via said session manager; and

loading at least one application state file created by other local applications and communicated from said other session clients via said session manager.

2. (Original) The method of claim 1 wherein said at least one application state is encoded using normalized XML structures to create said at least one application state file, and wherein said at least one application state file is communicated as an XML message.

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- 3. (Original) The method of claim 2 wherein said XML structures are based on domain specific conventions defined in the context of the type of design data.
- 4. (Original) The method of claim 1 further comprising saving said session controls and said at least one application state file in a journal file.
- 5. (Original) The method of claim 1 further comprising the step of scheduling said collaborative session.
- 6. (Original) The method of claim 1 further comprising the step of conducting a text-based conversation with said other session clients.
- 7. (Original) The method of claim 1 further comprising the steps of logging in to said collaborative session and logging out of said collaborative session.
- 8. (Original) The method of claim 1 further comprising the step of controlling the loading of said application state file at a time selected by the user.
- 9. (Original) The method of claim 1 further comprising the step of displaying design manipulations corresponding to said application state file created and communicated by said other application files.
- 10. (Original) The method of claim 1 wherein said design is manipulated without having to transmit design images between said heterogeneous applications.
- 11. (Original) A computerized method for collaborating to

manipulate a design using a plurality of heterogeneous applications, said method comprising the steps of:

loading design data into a local application on a computer; manipulating a design based on said design data using said local application;

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creating at least one application state file representing an application state of said local application based on at least one manipulation of said design using said local application;

saving each said at least one application state file in a journal file; and

transmitting said journal file to another computer such that said at least one application state file can be loaded on said another computer and said at least one manipulation can be reviewed using another heterogeneous application running on said another computer.

- 12. (Original) The computerized method of claim 11 wherein said method is an asynchronous method of collaboration.
- 13. (Original) The computerized method of claim 11 wherein said journal file provides interactive instructions when played back on said another computer.
- 14. (Currently Amended) A computerized method for dynamically collaborating between heterogeneous applications running concurrently on a single client, said method comprising the steps of:

loading design data into one of said applications on said client;

manipulating a design object using said one of said applications;

creating at least one application state file <u>representing at</u>
<u>least one application state of said design data based on at least</u>
<u>one manipulation of said design object using said one of said</u>
<u>applicationsreflecting a name of said design object being</u>
<u>manipulated</u>;

dynamically notifying at least one other of said applications of said application state file using local operating system interprocess messaging;

reading said application state file using said at least one other of said applications; and

manipulating a corresponding design object in said at least one other of said applications based on said application state file.

- 15. (Original) The computerized method of claim 14 wherein the step of manipulating said design includes highlighting said design object, and wherein said other of said applications highlights said corresponding design object upon reading said application state file.
- 16. (Original) The computerized method of claim 14 wherein said heterogeneous applications collaborate bi-directionally.
- 17. (Currently amended) A <u>computer program product comprising a storage medium having computer-readable code stored</u>

 <u>thereoncomputerized system</u> for collaborating over a network to manipulate a design using a plurality of heterogeneous applications

running on clients connected to the network, said system comprising:

at least one application state file for representing application states created by a local application based on at least one manipulation of a design made using said local application; and

a session client module for synchronizing interaction between said local application and a collaborative session and for communicating said application state file over the network to other clients.

18. (Currently amended) The <u>computer program product</u> computerized system of claim 17 wherein said session client module comprises:

a user interface for interfacing with a user;

a first application programming interface for interfacing with said local application; and

a second application programming interface for interfacing with a session manager over the network.

- 19. (Currently amended) The <u>computer program product</u> computerized system of claim 17 further comprising a session journal for recording session controls and said application states during said collaboration session.
- 20. (Currently amended) The <u>computer program product</u> computerized system of claim 17 wherein said application states are encoded using normalized XML structures to create said at least one application state file, and wherein said at least one application state file is communicated as an XML message.

- 21. (Currently amended) The <u>computer program product</u> computerized system of claim 17 wherein said session client module communicates said application state file without sending images of said design.
- 22. (Currently amended) A <u>computer program product comprising a storage medium having computer-readable code stored</u>

 <u>thereon</u>computerized system for collaborating to manipulate a design using a plurality of heterogeneous applications, said system comprising:

means for loading design data into a local application on a computer;

means for manipulating a design based on said design data using said local application;

creating at least one application state file representing an application state of said local application based on at least one manipulation of said design using said local application;

means for saving each said at least one application state file in a journal file; and

means for transmitting said journal file to another computer such that said at least one application state file can be loaded on said another computer and said at least one manipulation can be reviewed using another heterogeneous application running on said another computer.

23. (Original) A computer program product comprising a storage medium having computer-readable code stored thereon for collaborating over a network to manipulate a design using a

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plurality of heterogeneous applications on client computers connected to the network, said computer-readable code

comprising:

code for interfacing with a user;

code for interfacing with a local application used to manipulate a design;

code for interfacing with a session manager over a network; and

code for creating a session client process to communicate session controls and at least one application state file to said session manager over said network, wherein said application state file is created by said local application based on at least one manipulation of said design.

24. (Original) A computer program product comprising a storage medium having computer-readable code stored thereon for collaborating over a network to manipulate a design using a plurality of heterogeneous applications on client computers connected to the network, said computer-readable code comprising:

code for interfacing with a user;

code for interfacing with a local application;

code for instructing said local application to create at least one application state file representing at least one application state based on a manipulation made to a design using said application state file;

code for interfacing with a session manager over a network;

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code for sending said at least one application state file and session controls to said session manager; and

code for notifying said local application that an application state file has been received.

25. (Original) The computer program product of claim 24 further comprising code for controlling instantiation of said received application state file into said local application.